

Figure 2A. DNA and deduced amino acid sequences of hG-CSF-L-vFc_{γ2}

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PATENT & TRADEMARK OFFICE

DNA	SEQ ID NO:	17
Amino Acid Sequence	SEQ ID NO:	18
aag ctt ccc aga ccc atg gct gga cct gcc acc cag agc ccc atg aag ctg atg gcc ctg		60
HindIII M A G P A T Q S P M K L M A L		
-30 -20		
cag ctg ctg ctg tgg cac agt gca ctc tgg aca gtg cag gaa gcc acc ccc ctg ggc cct		120
Q L L L W H S A L W T V Q E A T P L G P		
-10 -1 1		
gcc agc tcc ctg ccc cag agc ttc ctg ctc aag tgc tta gag caa gtg agg aag atc cag		180
A S S L P Q S F L L K C L E Q V R K I Q		
10 20		
ggc gat ggc gca gcg ctc cag gag aag ctg tgt gcc acc tac aag ctg tgc cac ccc gag		240
G D G A A L Q E K L C A T Y K L C H P E		
30 40		
gag ctg gtg ctg ctc gga cac tct ctg ggc atc ccc tgg gct ccc ctg agc agc tgc ccc		300
E L V L L G H S L G I P W A P L S S C P		
50 60		
agc cag gcc ctg cag gca ggc tgc ttg agc caa ctc cat agc ggc ctt ttc ctc tac		360
S Q A L Q L A G C L S Q L H S G L F L Y		
70 80		
cag ggg ctc ctg cag gcc ctg gaa ggg atc tcc ccc gag ttg ggt ccc acc ttg gac aca		420
Q G L L Q A L E G I S P E L G P T L D T		
90 100		
ctg cag ctg gac gtc gcc gac ttt gcc acc acc atc tgg cag cag atg gaa gaa ctg gga		480
L Q L D V A D F A T T I W Q Q M E E L G		
110 120		
atg gcc cct gcc ctg cag ccc acc cag ggt gcc atg ccg gcc ttc gcc tct gct ttc cag		540
M A P A L Q P T Q G A M P A F A S A F Q		
130 140		
cgc cgg gca gga ggg gtc cta gtt gcc tcc cat ctg cag agc ttc ctg gag gtg tcg tac		600
R R A G G V L V A S H L Q S F L E V S Y		
150 160		
cgc gtt cta cgc cac ctt gcc cag ccc gga tcc ggt ggc ggt tcc ggt gga ggc gga agc		660
R V L R H L A Q P G S G G G S G G G S		
170 180		
ggc ggt gga gga tca gag cgc aaa tgt tgg gtc gag tgc cca ccc tcc tcc cca gca cca cct		720
G G G G S E R K C C V E C P P C P A P P		
190 200		
gtg gca gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc		780
V A G P S V F L F P P K P K D T L M I S		
210 220		
cgg acc cct gag gtc acg tgc gtg gtg gac gtg agc cac gaa gac ccc gag gtc cag		840
R T P E V T C V V V D V S H E D P E V Q		
230 240		
ttc aac tgg tac gtc gac ggc gtg gag gtg cat aat gcc aag aca aag cca cgg gag gag		900
F N W Y V D G V E V H N A K T K P R E E		
250 260		
cag ttc aac agc acg ttc cgt gtg gtc agc gtc ctc acc gtt gtg cac cag gac tgg ctg		960
Q F N S T F R V V S V L T V V H Q D W L		
270 280		
aac ggc aag gag tac aag tgc aag gtc tcc aac aaa ggc ctc cca gcc <u>tcc</u> atc gag aaa		1020
N G K E Y K C K V S N K G L P A S I E K		
290 300		
acc atc tcc aaa acc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca tcc		1080
T I S K T K G Q P R E P Q V Y T L P P S		
310 320		
cgg gag gag atg acc aag aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tac ccc		1140
R E E M T K N Q V S L T C L V K G F Y P		
330 340		
agC gac atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc aca		1200
S D I A V E W E S N G Q P E N N Y K T T		
350 360		
cct ccc atg ctg gac tcc gac ggc tcc ttc ctc tac agc aag ctc acc gtg gac aag		1260
P P M L D S D G S F F L Y S K L T V D K		
370 380		
agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac aac		1320
S R W Q O G N V F S C S V M H E A L H N		
390 400		
cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa tga gaa ttc		1368
H Y T Q K S L S P G K EcoRI		
410 418		

Figure 2B. DNA and deduced amino acid sequences of hG-CSF-L-vFc_{γ4}

DNA	SEQ ID NO:	19
Amino Acid Sequence	SEQ ID NO:	20
aag ctt ccc aga ccc atg gct gga cct gcc acc cag agc ccc atg aag ctg atg gcc ctg HindIII M A G P A T Q S P M K L M A L -30 -20		60
cag ctg ctg ctg tgg cac agt gca ctc tgg aca gtg cag gaa gac acc ccc ctg ggc cct Q L L L W H S A L W T V Q E A T P L G P -10 -1 1		120
gcc agc tcc ctg ccc cag agc ttc ctg ctc aag tgc tta gag caa gtg agg aag atc cag A S S L P Q S F L L K C L E Q V R K I Q 10 20		180
ggc gat ggc gca gcg ctc cag gag aag ctg tgt gcc acc tac aag ctg tgc cac ccc gag G D G A A L Q E K L C A T Y K L C H P E 30 40		240
gag ctg gtg ctg ctc gga cac tct ctg ggc atc ccc tgg gct ccc ctg agc agc tgc ccc E L V L G H S L G I P W A P L S S C P 50 60		300
agc cag gcc ctg cag ctg gca ggc tgc ttg agc caa ctc cat agc ggc ctt ttc ctc tac S Q A L Q L A G C L S Q L H S G L F L Y 70 80		360
cag ggg ctc ctg cag gcc ctg gaa ggg atc tcc ccc gag ttg ggt ccc acc ttg gac aca Q G L L Q A L E G I S P E L G P T L D T 90 100		420
ctg cag ctg gac gtc gcc gac ttt gcc acc acc atc tgg cag cag atg gaa gaa ctg gga L Q L D V A D F A T T I W Q Q M E E L G 110 120		480
atg gcc cct gcc ctg cag ccc acc cag ggt gcc atg ccg gcc ttc gcc tct gct ttc cag M A P A L Q P T Q G A M P A F A S A F Q 130 140		540
cgc cgg gca gga ggg gtc cta gtt gcc tcc cat ctg cag agc ttc ctg gag gtg tcg tac R R A G G V L V A S H L Q S F L E V S Y 150 160		600
cgc gtt cta cgc cac ctt gcc cag ccc gga tcc ggt ggc ggt tcc ggt gga ggc gga agc R V L R H L A Q P G S G G G S G G G G S 170 180		660
ggc ggt gga gga tca gag tcc aaa tat ggt ccc cca tgc cca cca tgc cca gca cct gag G G G G S E S K Y G P P C P C P A P E 190 200		720
tcc <u>ggc</u> ggg gga cca tca gtc ttc ctg ttc ccc cca aaa ccc aag gac act ctc atg atc F <u>A</u> G G P S V F L F P P K P K D T L M I 210 220		780
tcc cgg acc cct gag gtc acg tgc gtg gtg gac gtg agc cag gaa gac ccc gag gtc S R T P E V T C V V D V S Q E D P E V 230 240		840
cag ttc aac tgg tac gtg gat ggc gtg gag gtg cat aat gcc aag aca aag ccg cgg gag Q F N W Y V D G V E V H N A K T K P R E 250 260		900
gag cag ttc aac agc acg tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg E Q F N S T Y R V V S V L T V L H Q D W 270 280		960
ctg aac ggc aag gag tac aag tgc aag gtc tcc aac aaa ggc ctc ccc tcc tcc atc gag L N G K E Y K C K V S N K G L P S S I E 290 300		1020
aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gag cca cag gtg tac acc ctg ccc cca K T I S K A K G Q P R E P Q V Y T L P P 310 320		1080
tcc cag gag gag atg acc aag aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tac S Q E E M T K N Q V S L T C L V K G F Y 330 340		1140
ccc agc gac atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc P S D I A V E W E S N G Q P E N N Y K T 350 360		1200
acg cct ccc gtg ctg gac tcc gac ggc tcc ttc ctc tac agc agg cta acc gtg gac T P P V L D S D G S F F L Y S R L T V D 370 380		1260
aag agc agg tgg cag gag ggg aat gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac K S R W Q E G N V F S C S V M H E A L H 390 400		1320
aac cac tac aca cag aag agc ctc tcc ctg tct ctg ggt aaa tga gaa ttc N H Y T Q K S L S L G K EcoRI 410 419		1371

Figure 2C. DNA and deduced amino acid sequences of hG-CSF-L-vFc_{γ1}

DNA	SEQ ID NO:	21
Amino Acid Sequence	SEQ ID NO:	22
aag ctt ccc aga ccc atg gct gga cct gcc acc cag agc ccc atg aag ctg atg gcc ctg		60
HindIII M A G P A T Q S P M K L M A L		
-30 -20		
cag ctg ctg ctg tgg cac agt gca ctc tgg aca gtg cag gaa gcc acc ccc ctg ggc cct		120
Q L L L W H S A L W T V Q E A T P L G P		
-10 -1 1		
gcc agc tcc ctg ccc cag agc ttc ctg ctc aag tgc tta gag caa gtg agg aag atc cag		180
A S S L P Q S F L L K C L E Q V R K I Q		
10 20		
ggc gat ggc gca gcg ctc cag gag aag ctg tgt gcc acc tac aag ctg tgc cac ccc gag		240
G D G A A L Q E K L C A T Y K L C H P E		
-30 40		
gag ctg gtg ctg ctc gga cac tct ctg ggc atc ccc tgg gct ccc ctg agc agc tgc ccc		300
E L V L L G H S L G I P W A P L S S C P		
50 60		
agc cag gcc ctg cag gca ggc tgc ttg agc caa ctc cat agc ggc ctt ttc ctc tac		360
S Q A L Q L A G C L S Q L H S G L F L Y		
70 80		
cag ggg ctc ctg cag gcc ctg gaa ggg atc tcc ccc gag ttg ggt ccc acc ttg gac aca		420
Q G L L Q A L E G I S P E L G P T L D T		
90 100		
ctg cag ctg gac gtc gcc gac ttt gcc acc acc atc tgg cag cag atg gaa gaa ctg gga		480
L Q L D V A D F A T T I W Q Q M E E L G		
110 120		
atg gcc cct gcc ctg cag ccc acc cag ggt gcc atg ccg gcc ttc gcc tct gct ttc cag		540
M A P A L Q P T Q G A M P A F A S A F Q		
130 140		
cgc cgg gca gga ggg gtc cta gtt gcc tcc cat ctg cag agc ttc ctg gag gtg tcg tac		600
R R A G G V L V A S H L Q S F L E V S Y		
150 160		
cgc gtt cta cgc cac ctt gcc cag ccc gga tcc ggt ggc ggt tcc ggt gga ggc gga agc		660
R V L R H L A Q P G S G G G S		
170 180		
ggc ggt gga gga tca gac aaa act cac aca tgc cca ccg tgc cca gca cct gaa <u>gtc gcg</u>		720
G G G G S D K T H T C P P C P A P E V A		
190 200		
ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg		780
G G P S V F L F P P K P K D T L M I S R		
210 220		
aca cct gag gtc aca tgc gtg gtg gac gtg agc cac gaa gac cct gag gtc aag ttc		840
T P E V T C V V D V S H E D P E V K F		
230 240		
aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca aag ccg cgg gag gag cag		900
N W Y V D G V E V H N A K T K P R E E Q		
250 260		
tac aac agc acg tac cgg gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat		960
Y N S T Y R V V S V L T V L H Q D W L N		
270 280		
ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc <u>tcc</u> atc gag aaa acc		1020
G K E Y K C K V S N K A L P A S I E K T		
290 300		
atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca tcc cgg		1080
I S K A K G Q P R E P Q V Y T L P P S R		
310 320		
gat gag ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc		1140
D E L T K N Q V S L T C L V K G F Y P S		
330 340		
gac atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct		1200
D I A V E W E S N G Q P E N N Y K T T P		
350 360		
ccc gtg ctg gac tcc gac ggc tcc ttc ctc tac agc aag ctc acc gtg gac aag agc		1260
P V L D S D G S F F L Y S K L T V D K S		
370 380		
agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac aac cac		1320
R W Q Q G N V F S C S V M H E A L H N H		
390 400		
tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa tga gaa ttc		1365
Y T Q K S L S P G K EcoRI		
410 417		